

REPLACEMENT SHEET

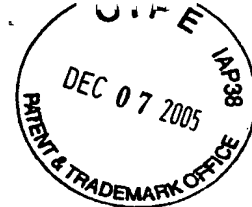
Application No. 09/900,963

Attorney Docket No.: 010830-118

Inventor(s): Claudine Guerin-Marchand et al.

PEPTIDE SEQUENCES SPECIFIC FOR THE HEPATIC STAGES OF P. FALCIPARUM
BEARING EPITOPE CAPABLE OF STIMULATING THE T LYMPHOCYTES

Page 1 of 5



(5') 1 SDLEQERRAKEKLQEQQ
18 SDLEQDRLAKEKLQEQQ
35 SDLEQERLAKEKLQEQQ
52 SDLEQERRAKEKLQEQQ
69 SDLEQERRAKEKLQEQQ
86 SDLEQDRLAKEKLQEQQ
103 SDLEQERRAKEKLQEQQ
120 SDLEQERRAKEKLQEQQ
137 SDLEQERLAKEKLQEQQ
154 SDLEQERRAKEKLQEQQ
171 SDLEQERRAKEKLQEQQ
188 SDLEQERRAKEKLQEQQ
205 RDLEQ

210 RKADTKKNLERKKEHGDILAEDLYGRLEIP
240 AIELPSENERGYYPHQSSLPQDNRGNSRD
270 SKEISIIIEKTNRESITTNVEGRRDIHKGHL
300 EEKKDGSIKPEQKEDKS 316 (3')

FIGURE 1

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Page 2 of 5



RDELFNELLNSVDVNGEVKENILEESQVNEDIFNSLVJSVQEQQ
HNVEEKVEESVEENDEESVEENVEENVEENDDGSVASSVEESI
ASSVDESIDSSIEENVAPTVEEIVAPTVEEIVAPSVVEKCAPSVE
ESVAPSVVEESVAEMLKER

FIGURE 3

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Page 3 of 5



1261 / 421	1291 / 431	
AAA GGA AAG AAA TAT GAA AAA ACA AAG GAT AAT AAT TTT AAA CCA AAT GAT AAA AGT TTG		
lys gly lys lys tyr glu lys thr lys asp asn phe lys pro asn asp lys ser leu		
1321 / 441	1351 / 451	
TAT GAT GAG CAT ATT AAA AAA TAT AAA AAT GAT AAG CAG GTT AAT AAG GAA AAG GAA AAA		
tyr asp glu his ile lys lys tyr lys asn asp lys gln val asn lys glu lys glu lys		
1381 / 461	1411 / 471	
TTC ATA AAA TCA TTG TTT CAT ATA TTT GAC GGA GAC AAT GAA ATT TTA CAG ATC GTG GAT		
phe ile lys ser leu phe his ile phe asp gly asp asn glu ile leu gln ile val asp		
1441 / 481	1471 / 491	
GAG TTA TCT GAA GAT ATA ACT AAA TAT TTT ATG AAA CTA TAA AAG GTT ATA TAT		
glu leu ser glu asp ile thr lys tyr phe met lys leu		

FIGURE 9D



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Page 4 of 5

LSN.3'STOP -> 1-phase Translation

DNA sequence 1482 b.p. CAAGAACAACAA ... ATGAAACTATAA linear

1 / 1	31 / 11	
CAA GAA CAA CAA AGC GAT CTA GAA CAA GAG AGA CGT GCT AAA GAA AAG TTG CAA GAA CAA		
gln glu gln gln ser asp leu glu gln gln arg ala lys glu lys leu gln glu gln		
61 / 21	91 / 31	
CAA AGC GAT TTA GAA CAA GAT AGA CTT GCT AAA GAA AAG TTA CAA GAG CAG CAA AGC GAT		
gln ser asp leu glu gln asp arg leu ala lys glu lys leu gln glu gln ser asp		
121 / 41	151 / 51	
TTA GAA CAA GAG AGA CTT GCT AAA GAA AAG TTG CAA GAA CAA AGC GAT CTA GAA CAA		
leu glu gln glu arg leu ala lys glu lys leu gln glu gln ser asp leu glu gln		
181 / 61	211 / 71	
GAG AGA CGT GCT AAA GAA AAG TTG CAA GAA CAA CAA AGC GAT TTA GAA CAA GAG AGA CGT		
glu arg arg ala lys glu lys leu gln glu gln ser asp leu glu gln arg arg		
241 / 81	271 / 91	
GCT AAA GAA AAG TTG CAA GAA CAA CAA AGC GAT TTA GAA CAA GAT AGA CTT GCT AAA GAA		
ala lys glu lys leu gln glu gln ser asp leu glu gln asp arg leu ala lys glu		
301 / 101	331 / 111	
AAG TTA CAA GAG CAG CAA AGC GAT TTA GAA CAA GAG AGA CGT GCT AAA GAA AAG TTG CAA		
lys leu gln glu gln ser asp leu glu gln glu arg ala lys glu lys leu gln		

FIGURE 10A



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1321 / 441 1351 / 451
TAT GAT GAG CAT ATT AAA AAT TAT AAA AAT GAT AAG CAG GTT AAT AAG GAA AAG GAA AAA
tyr asp glu his ile lys lys tyr lys asn asp lys gln val asn lys glu lys glu lys
1381 / 461 1411 / 471
TTC ATA AAA TCA TIG TTT CAT ATA TTT GAC GGA GAC AAT GAA ATT TTA CAG ATC GTG GAT
phe ile lys ser leu phe his ile phe asp gly asp asn glu ile leu gln ile val asp
1441 / 481 1471 / 491
GAG TTA TCT GAA GAT ATA ACT AAA TAT TTT ATG AAA CTA TAA AAG GTT ATA TAT
glu leu ser glu asp ile thr lys tyr phe met lys leu

FIGURE 10D